

# Subject Index - - Volume XIV

## ABSTRACTS

### - A -

#### Anatomy

Muscle Mechanics, Some Aspects of (Strange, F.G.St.C.) 4:113, July.  
Orphan of Medicine, the (Du Vries, H. L.) 2:45, March.

#### Anthropometry

Body Build of Male Homosexuals (Coppen, A. J.) 2:45, March.  
Fat-Free Body, Estimation of the Constancy of Density of (Werdein, E. J. & Kyle, L. H.) 4:115, July.

#### Arthritis

Arthritis, Treatment and Rehabilitation of, Physical Medicine in (Twombly, G.) 1:20, Jan.

#### Athletic Injuries

Adductor Muscle Injuries in Bowlers (Hoon, J. R.) 2:45, March.  
Boxing and Face Lacerations, 3:82, May.  
Herniae, Causation of, by Weight Lifting (Davis, P. R.) 2:44, March.  
Ligamentous Disruption of the Knee (Ritchey, S. J.) 2:45, March.  
Medial Epicondylitis (Marmor, L.) 1:20, Jan.  
Skiing Injuries, Mechanisms Involved in (Erskine, L. A.) 1:21, Jan.

### - B -

#### Boxing

Boxing and Face Lacerations, 3:82, May.  
Medical Officers of Schools Association 4:114, July.

### - C -

#### Circulation

Atherosclerosis, Experimental, Accelerating Effect of Muscular Exercise On (McAllister, F. F.) 2:45, March.  
Blood Lactate During Recovery from Sprint Runs (Andersen, K. L., Bolstad, A. & Sand, S.) 3:83, May.  
Blood Volume in Man, Central, Effects of Exercise on (Braunwald, E., Kelly, E. R. & Bullock, F. A.) 4:113, July.  
Cardiac Infarction, Acute, Physical Activity of Patients After the Onset of (Jarvinen, K. A. J.) 4:113, July.  
Cardiovascular System, Effects of Muscular Work and Heat on the (Brouha, L.) 3:82, May.  
Cholesterol: the Perplexing Metabolite (Saunders, J. F.) 4:113, July.  
Concentration and Turnover of Plasma Nonesterified Fatty Acids, Effect of Exercise on (Friedberg, S. J.) 4:114, July.  
Stroke Volume, Behavior of, at Rest and During Exercise in Human Beings (Chapman, C. B., Fisher, J. N. & Sproule, B. J.) 6:174, Nov.

### - E -

#### Exercise

Exercise, Effect of, on Central Blood Volume in Man (Braunwald, E., Kelly, E. R. & Bullock, F.A.) 4:113, July.

Exercise, Effect of, on the Concentration and Turnover of Plasma Nonesterified Fatty Acids (Friedberg, S. J.) 4:114, July.

Exercise, Muscular, Accelerating Effect of, on Experimental Atherosclerosis (McAllister, F. F.) 2:45, March.

Exercise, Proteinuria During the 24-Hour Period Following (Coye, R.D. & Rosandich, R.R.) 6:175, Nov.

Exercise Therapy 5:142, Sept.

Exercises, Yogi, Some, Electro-Physiological Correlates of (Bagchi, B. K. & Wenger, M. A.) 1:19, Jan.

Exercises, Brief Maximal Isotonic, Observations on the Clinical Effects of (Rose, D. L.) 5:142, Sept.  
Mechanical Efficiency, Influence of Test Pauses on (Christensen, E. H., Hedman, R. & Holmdahl, I.) 4:114, July.

Metabolic Protection and Reconditioning of the Heart Muscle Through Habitual Physical Exercise (W. Raab) 6:174, Nov.

Muscle Training by Static, Concentric and Eccentric Contractions (Petersen, F. B.) 5:142, Sept.

Muscular Work, Intermittent (Astrand, I., Astrand, P. O. Christensen, E. H. & Hedman, R.) 5:142, Sept.

Physical Activity of Patients After the Onset of Acute Cardiac Infarction (Jarvinen, K. A. J.) 4:113, July.

Strength, Rapidity of Movement and Endurance, Development of, in the Course of Training in Various Forms of Athletic Activity (Iakoviev, N. N.) 5:143, Sept.

Training, Effect of, on Work Capacity, Total Hemoglobin, Blood Volume, Heart Volume and Pulse Rate in Recumbent and Upright Positions (Holmgren, A.) 6:174, Nov.

### - M -

#### Medicine

Anesthesia, Statistics and Biometrics in (Martin, S. J.) 2:46, March.  
Blood Fibrinolytic Activity, Effect of Beer on (Fearnley, G. R.) 2:46, March.

Disease, Coronary Heart, Civilized Pattern of Human Activity and (Minic, S.) 6:175, Nov.

Disease, Infectious, Nutritional Aspects of (Garber, E. D.) 3:82, May.

Male Sex Hormones (Bishop P. M. F.) 2:46, March.

Man, Disease, and the Social Environment (Volkart, E. H.) 3:82, May.

Psychosomatic Medicine (Binger, C.) 6:174, Nov.

Species Differences (Orloff, M. J.) 1:21, Jan.

### - N -

#### Nutrition

Coffee Break, the (Felton, J. S.) 1:20, Jan.

Diet and Weight-Reduction in the

Obese (Pilkington, T. E.) 4:115, July.

Food Faddism (Engel, R. W.) 2:46, March.

Nutritional Aspects of Infectious Disease (Garber, E. D.) 3:82, May.  
Vitamin E For Athletes (Johnston, W.) 4:114, July.

### - P -

#### Physical Education

Judo (Hodkinson, H. M., Morris-Owen, R. M. & Williams, H. M.) 4:113, July.

Judo, Studies on the Choking in, Particularly on its Electroencephalogram (Suzuki, K.) 4:114, July.

Physical Education, Future of, the (Jokl, E.) 2:46, March.

Training the Sportsman, Scientific Trends in (Carlike, F.) 1:20, Jan.

Weight Training Program, Comparative Study of the effects on Jr. H. S. Boys (Pitman, J.) 2:45, March.

#### Physical Fitness

Physical Fitness, on the Features in, of Champions in Weight Lifting (Bando, E., Takayama, T., Miyamoto, H., Ushikubo, S. & Sasada, T.) 3:83, May.

Shoes and Feet, 3:83, May.

Weight Training Program, Comparative Study of the Effects of on Jr. H. S. Boys (Pitman, J.) 2:45, March.

Yogi, Functional Capacities of a (Rasch, P. J.) 1:21, Jan.

#### Physical Medicine

Anterior Tibial Syndrome (Grundwald, A. & Silberman, Z.) 4:113, July.

Arthritis, Treatment and Rehabilitation of, Physical Medicine in (Twombly, G.) 1:20, Jan.

Exercise, Immobilization and Intermittent Stretching, Effect of, on Strength of Knee Ligaments of Albino Rats (Rasch, P. J., Maniscalco, R., Pierson, W. R. & Logan, G. A.) 3:83, May.

Physiotherapy, Use and Misuse of (Cyriax, J.) 6:174, Nov.

Short Leg Syndrome (Nichols, P.J.R.) 6:175, Nov.

Temperature and Volume Diminution, Coefficient of, of the Muscle and Myosin Threads When Passively Stretched (Tigye, J. & Sebes, T. A.) 1:21, Jan.

Tennis Elbow (Wall, J.) 4:114, July.

#### Physiology

Caloric Expenditure of Normal and Obese Subjects During Standard Work Test (McKee, W. P. & Bolinger, R. E.) 3:82, May.

Cardiovascular System, Effects of Muscular Work and Heat on the (Brouha, L.) 3:82, May.

Competitive Conditions, Effect of, on Respiratory Exchange, Pulse Rate, Arterial Pressure and Efficiency in Athletes (Smirnov, K. M.) 2:45, March.

Heat Production from Shivering (Iampietro, P.F.) 6:175, Nov.

# Subject Index - - Volume XIV

## ABSTRACTS

### - A -

#### Anatomy

Muscle Mechanics, Some Aspects of (Strange, F.G.St.C.) 4:113, July.  
Orphan of Medicine, the (Du Vries, H. L.) 2:45, March.

#### Anthropometry

Body Build of Male Homosexuals (Coppen, A. J.) 2:45, March.  
Fat-Free Body, Estimation of the Constancy of Density of (Werdein, E. J. & Kyle, L. H.) 4:115, July.

#### Arthritis

Arthritis, Treatment and Rehabilitation of, Physical Medicine in (Twombly, G.) 1:20, Jan.

#### Athletic Injuries

Adductor Muscle Injuries in Bowlers (Hoon, J. R.) 2:45, March.  
Boxing and Face Lacerations, 3:82, May.  
Herniae, Causation of, by Weight Lifting (Davis, P. R.) 2:44, March.  
Ligamentous Disruption of the Knee (Ritchey, S. J.) 2:45, March.  
Medial Epicondylitis (Marmor, L.) 1:20, Jan.  
Skiing Injuries, Mechanisms Involved in (Erskine, L. A.) 1:21, Jan.

### - B -

#### Boxing

Boxing and Face Lacerations, 3:82, May.  
Medical Officers of Schools Association 4:114, July.

### - C -

#### Circulation

Atherosclerosis, Experimental, Accelerating Effect of Muscular Exercise On (McAllister, F. F.) 2:45, March.  
Blood Lactate During Recovery from Sprint Runs (Andersen, K. L., Bolstad, A. & Sand, S.) 3:83, May.  
Blood Volume in Man, Central, Effects of Exercise on (Braunwald, E., Kelly, E. R. & Bullock, F. A.) 4:113, July.  
Cardiac Infarction, Acute, Physical Activity of Patients After the Onset of (Jarvinen, K. A. J.) 4:113, July.  
Cardiovascular System, Effects of Muscular Work and Heat on the (Brouha, L.) 3:82, May.  
Cholesterol: the Perplexing Metabolite (Saunders, J. F.) 4:113, July.  
Concentration and Turnover of Plasma Nonesterified Fatty Acids, Effect of Exercise on (Friedberg, S. J.) 4:114, July.  
Stroke Volume, Behavior of, at Rest and During Exercise in Human Beings (Chapman, C. B., Fisher, J. N. & Sproule, B. J.) 6:174, Nov.

### - E -

#### Exercise

Exercise, Effect of, on Central Blood Volume in Man (Braunwald, E., Kelly, E. R. & Bullock, F.A.) 4:113, July.

Exercise, Effect of, on the Concentration and Turnover of Plasma Nonesterified Fatty Acids (Friedberg, S. J.) 4:114, July.

Exercise, Muscular, Accelerating Effect of, on Experimental Atherosclerosis (McAllister, F. F.) 2:45, March.

Exercise, Proteinuria During the 24-Hour Period Following (Coye, R.D. & Rosandich, R.R.) 6:175, Nov.

Exercise Therapy 5:142, Sept.

Exercises, Yogi, Some, Electro-Physiological Correlates of (Bagchi, B. K. & Wenger, M. A.) 1:19, Jan.

Exercises, Brief Maximal Isotonic, Observations on the Clinical Effects of (Rose, D. L.) 5:142, Sept.  
Mechanical Efficiency, Influence of Test Pauses on (Christensen, E. H., Hedman, R. & Holmdahl, I.) 4:114, July.

Metabolic Protection and Reconditioning of the Heart Muscle Through Habitual Physical Exercise (W. Raab) 6:174, Nov.

Muscle Training by Static, Concentric and Eccentric Contractions (Petersen, F. B.) 5:142, Sept.

Muscular Work, Intermittent (Astrand, I., Astrand, P. O. Christensen, E. H. & Hedman, R.) 5:142, Sept.

Physical Activity of Patients After the Onset of Acute Cardiac Infarction (Jarvinen, K. A. J.) 4:113, July.

Strength, Rapidity of Movement and Endurance, Development of, in the Course of Training in Various Forms of Athletic Activity (Iakoviev, N. N.) 5:143, Sept.  
Training, Effect of, on Work Capacity, Total Hemoglobin, Blood Volume, Heart Volume and Pulse Rate in Recumbent and Upright Positions (Holmgren, A.) 6:174, Nov.

### - M -

#### Medicine

Anesthesia, Statistics and Biometrics in (Martin, S. J.) 2:46, March.  
Blood Fibrinolytic Activity, Effect of Beer on (Fearnley, G. R.) 2:46, March.  
Disease, Coronary Heart, Civilized Pattern of Human Activity and (Minic, S.) 6:175, Nov.  
Disease, Infectious, Nutritional Aspects of (Garber, E. D.) 3:82, May.  
Male Sex Hormones (Bishop P. M. F.) 2:46, March.  
Man, Disease, and the Social Environment (Volkart, E. H.) 3:82, May.  
Psychosomatic Medicine (Binger, C.) 6:174, Nov.  
Species Differences (Orloff, M. J.) 1:21, Jan.

### - N -

#### Nutrition

Coffee Break, the (Felton, J. S.) 1:20, Jan.  
Diet and Weight-Reduction in the

Obese (Pilkington, T. E.) 4:115, July.

Food Faddism (Engel, R. W.) 2:46, March.

Nutritional Aspects of Infectious Disease (Garber, E. D.) 3:82, May.  
Vitamin E For Athletes (Johnston, W.) 4:114, July.

### - P -

#### Physical Education

Judo (Hodkinson, H. M., Morris-Owen, R. M. & Williams, H. M.) 4:113, July.

Judo, Studies on the Choking in, Particularly on its Electroencephalogram (Suzuki, K.) 4:114, July.

Physical Education, Future of, the (Jokl, E.) 2:46, March.

Training the Sportsman, Scientific Trends in (Carlile, F.) 1:20, Jan.

Weight Training Program, Comparative Study of the effects on Jr. H. S. Boys (Pitman, J.) 2:45, March.

#### Physical Fitness

Physical Fitness, on the Features in, of Champions in Weight Lifting (Bando, E., Takayama, T., Miyamoto, H., Ushikubo, S. & Sasada, T.) 3:83, May.

Shoes and Feet, 3:83, May.

Weight Training Program, Comparative Study of the Effects of on Jr. H. S. Boys (Pitman, J.) 2:45, March.

Yogi, Functional Capacities of a (Rasch, P. J.) 1:21, Jan.

#### Physical Medicine

Anterior Tibial Syndrome (Grundwald, A. & Silberman, Z.) 4:113, July.

Arthritis, Treatment and Rehabilitation of, Physical Medicine in (Twombly, G.) 1:20, Jan.

Exercise, Immobilization and Intermittent Stretching, Effect of, on Strength of Knee Ligaments of Albino Rats (Rasch, P. J., Maniscalco, R., Pierson, W. R. & Logan, G. A.) 3:83, May.

Physiotherapy, Use and Misuse of (Cyriax, J.) 6:174, Nov.

Short Leg Syndrome (Nichols, P.J.R.) 6:175, Nov.

Temperature and Volume Diminution, Coefficient of, of the Muscle and Myosin Threads When Passively Stretched (Tigye, J. & Sebes, T. A.) 1:21, Jan.

Tennis Elbow (Wall, J.) 4:114, July.

#### Physiology

Caloric Expenditure of Normal and Obese Subjects During Standard Work Test (McKee, W. P. & Bolinger, R. E.) 3:82, May.

Cardiovascular System, Effects of Muscular Work and Heat on the (Brouha, L.) 3:82, May.

Competitive Conditions, Effect of, on Respiratory Exchange, Pulse Rate, Arterial Pressure and Efficiency in Athletes (Smirnov, K. M.) 2:45, March.

Heat Production from Shivering (Iampietro, P.F.) 6:175, Nov.

Insulin Action, Glucose Transport Theory of (Goldstein, M. S.) 4:114, July.

Isometric Muscular Effort, Effects of Variations in Intensity and Frequency of on the Development of Static Muscular Strength of Prepubescent Males (Rarick, G. L. & Larsen, G. L.) 2:46, March.

Lung Volumes of Singers (Heller, S. S., Hicks, W. R. & Root, W. S.) 2:45, March.

Lungs, on Exercise, Increase in Diffusing Capacity of the (MacNamara, J., Prime, F. J. & Sinclair, J. D.) 3:83, May.

Serum Cholesterol in Rabbits, Influence of Water Deprivation on (Altschul, R. & Smart, T. A.) 1:21, Jan.

Weight Lifting, Electrogram Changes Produced by Training in (Stepanov, A. S.) 2:46, March.

#### Psychiatry

Activity Programs, a Comparison of Group-Centered and Individual Centered (Efron, H. Y., Marks, H. K. & Hall, R.) 1:21, Jan.

Placebo Effect in the History of Medical Treatment: Implications for Psychiatry (Shapiro, A. K.) 1:19, Jan.

#### Psychology

Basic Tendencies, Life's, Theoretical Observations About (Buhler, C.) 1:20, Jan.

Brain and Personality, 4:115, July.

Masculinity and Smoking (Seltzer, C. C.) 2:44, March.

Musical Creativeness and Emotional Disturbance (Sherwin, A. C.) 2:46, March.

Smoking and Personality (Eysenck, H. J.) 4:113, July.

#### - R -

#### Rehabilitation

Physical Therapy, Development of, as a Profession, Through Research and Publication (Worthingham, C.) 5:143, Sept.

#### - S -

#### Sports Medicine

Athletes, Vitamin E for (Johnston, W.) 4:114, July.

Boxing and Face Lacerations, 3:82, May.

Knockout and Syncope in Professional Boxing (Espinoza, L. J. & Iborra, J. E.) 3:82, May.

Medical Officers of Schools Association 4:114, July.

Physical Fitness, on the Features in, of Champions in Weight Lifting (Bando, E., Takayama, T., Miyamoto, H., Ushikubo, S. & Sasada, T.) 3:83, May.

Sports Medicine, Bibliographies and Periodicals of, Since WW II (Klaus, E. J.) 4:114, July.

#### ARTICLES

#### - A -

#### Ambulation

Ambulation Aids, Measuring Instruments for: the Ambulaidometer (Hooker, R. F. & Blashy, M. R. M.) 3:89, May.

Ambulation With Pylons and the 'Faulty' Gait (Blashy, M. R. M., Tanzine, J. & Oldham, J.) 6:155, Nov.

#### Athletic Injuries

Ankle Exercise Program, Pre-Season, Effects on Prevention of Ankle Injuries in High School Basketball Players (Rhodes, E., Van Huss, W. D. & Nelson, R.) 3:78, May.

Knee Injury in Athletics, Dynamics of Force as Applied to, and as Related to the Supporting Strength of the Involved Musculature, a Preliminary Study of (Klein, K. K.) 2:35, March.

#### - B -

#### Bibliography

U. S. Sports Medicine Literature—1959 (Rasch, P. J., Pierson, W. R. & O'Connell, E. R.) 2:47, March.

#### Body Mechanics

Body Mechanics, Proper, and Patient Self-Care, a Training Course Outline for Hospital Personnel in (Fowler, R. G., Weber, B. H. & Koos, W.) 2:33, March.

#### - C -

#### Corrective Therapy

Corrective Therapy in Geriatrics (Van Schoick, J.) 2:41, March.

Curricula Development in School and Hospital Situations, Projecting (Klaifs, C. E., Bok, F. J., Jahn, R. & Young, C. H.) 4:100, July.

Expanding Corrective Therapy Vistas (Rosenberg, L.) 1:9, Jan.

Muscular Strength and Endurance Scores, Some, of Psychiatric Patients (Hodgdon, R. E. & Riemer, D.) 2:38, March.

Physical Reactivation as a Treatment Approach for Elderly Deteriorated Neuropsychiatric Patients (Atoman, D., Jurcisin, G. & Halliday, R. W.) 4:103, July.

Work Therapy for the Handicapped (Vogel J.) 6:165, Nov.

#### - E -

#### Education

Curricula Development in School and Hospital Situations, Projecting (Klaifs, C. E., Bok, F. J., Jahn, R. & Young, C. H.) 4:100, July.

Training Course Outline for Hospital Personnel in Proper Body Mechanics and Patient Self-Care (Fowler, R. G., Weber, B. H. & Koos, W.) 2:33, March.

#### Exercise

Dynamics of Force as Applied to Knee Injury in Athletics and as Related to the Supporting Strength of the Involved Musculature, a Preliminary Study of (Klein, K. K.) 2:35, March.

Exercise, Prolonged, Physiological Response to (Beckner, G. L. & Winsor, T.) 4:106, July.

Exercise, Progressive Resistance, Low-Resistance, High-Repetition, Effect of Upon Selected Measures of Strength and Flexibility (Wickstrom, R. L.) 6:161, Nov.

Hypertrophy or the Skeletal Muscle

(Siebert, W. W.) 6:153, Nov.

Strength Test, Total Proportional, Norms for the (Rasch, P. J., Pierson, W. R., O'Connell, E. R. & Hunt, M. B.) 3:67, May.

Weight Lifting in Athletics, Role of (Pierson, W. R.) 5:136, Sept.

#### - G -

#### Geriatrics

Aging, the Physiology of (Stafford, C. E.) 1:5, Jan.

Geriatrics, Corrective Therapy in (Van Schoick, J.) 2:41, March.

Recreation Service for the Aging (Shivers, J. S.) 6:168, Nov.

#### - H -

#### Health Education

Dysmenorrhea, Teen-Age; a Problem and a Challenge (Golub, L. S., Menduke, H., Mueller, G. W. & Christaldi, J.) 1:11, Jan.

#### - N -

#### Neurological

Epileptic, New Horizons in Rehabilitation of (Risch, P.) 5:129, Sept.

Spinal Cord Injured Patients, Rehabilitation of (Friedland, F.) 4:95, July.

#### - P -

#### Physical Education

High School Basketball Players, Effects of Pre-Season Ankle Exercise Program on Prevention of Ankle Injuries (Rhodes, E., Van Huss, W. D. & Nelson, R.) 3:78, May.

Teen-Age Dysmenorrhea: a Problem and a Challenge (Golub, L. S., Menduke, H., Mueller, G. W. & Christaldi, J.) 1:11, Jan.

#### Physical Fitness

Physical Fitness and Susceptibility to Infections (Jokl, E.) 3:71, May.

Rotometer, the and its Use by Disabled Students (Tipton, C. M. & Hall, D. M.) 3:72, May.

Strength Test, Total Proportional, Norms for the (Rasch, P. J., Pierson, W. R., O'Connell, E. R. & Hunt, M. B.) 3:67, May.

#### Physiology

Physiology of Aging, the (Stafford, C. E.) 1:5, Jan.

Physiological Response to Prolonged Exercise (Beckner, G. L. & Winsor, T.) 4:106, July.

Skin Temperature, Local, Effect of Local Isometric Muscular Activity on (O'Connell, E. R.) 3:74, May.

#### Psychiatric

Neuropsychiatric Patients, Elderly Deteriorated, Physical Reactivation as a Treatment Approach for (Atoman, D., Jurcisin, G. & Halliday, R. W.) 4:103, July.

Psychiatric Patients, Some Muscular Strength and Endurance Scores of (Hodgdon, R. E. & Riemer, D.) 2:38, March.

Schizophrenic Patients Hospitalized, Chronic, Therapeutic Program for (Appell, W. T. & Reis, W. H.) 1:14, Jan.

#### Psychology

Personality Attributes. Some, of



Champion Amateur Wrestlers (Rasch, P. J. & Hunt, M. B.) 6:163, Nov.

- R -

**Rehabilitation**

Rehabilitation, Medical, Scope and Objectives of (Radzyninski, S. F.) 5:132, Sept.

Rehabilitation of Spinal Cord Injured Patients (Friedland, F.) 4:96, July.

Rehabilitation of the Epileptic, New Horizons in (Risch, F.) 5:129, Sept.

Rehabilitation Opportunities in Industrial Medicine (St. Louis, F. G.) 5:134, Sept.

Rehabilitation, Vocational, in the Veterans Administration (Kraabel, T. O.) 5:138, Sept.

Wheelchair, How to Prescribe a (Nyquist, R. H. & Bors, E.) 5:125, Sept.

- S -

**Sports Medicine**

Sports Medicine Literature, U. S. — 1959 (Rasch, P. J., Pierson, W. R. & O'Connell, E. R.) 2:47, March.

**BOOK REVIEWS**

- A -

Anatomy, Cates' Primary (Basma-jian, J. V.) 2:50, March.

Anatomy, Descriptive and Surgical, a Brief Account of Henry Gray and His (Goss, C. M.) 2:51, March.

Anatomy, Functional, of the Limbs and Back (Hollinshead, W. H.) 3:86, May.

Aphasia Handbook for Adults and Children (Agronowitz, A. & McKeown, M. R.) 2:51, March.

Athletic Directors National Conference. 2:52, March.

Athletic Training and Conditioning (Dayton, O. W.) 6:176, Nov.

- B -

Body Building, Modern (Johnson, D. L. & Heidenstom, O.) 3:84, May.

Body Mechanics, Proper, and Patient Self-Care, Guide to, 4:116, July.

Body, Structure and Function of the (Anthony, C. P.) 5:144, Sept.

- C -

Conditioning Exercises, Games, Tests (Oermann, K. C. H., Young, C. H. & Gary, M. J.) 3:84, May.

- E -

Exercise and Fitness, 4:116, July.

Exercise and Sports, Science and Medicine of (Johnson, W. R.) 5:145, Sept.

Extrasensory Perception, Ciba Foundation Symposium (Wolstenholme, G. E. W. & Miller, E. C. P.) 4:116, July.

- F -

Fencing, How to Improve your (Garrett, M. R.) 1:25, Jan.

Foot Ailments, Physiotherapy for (Stirling, J. H.) 5:144, Sept.

Foot and the Ankle, the (Lewin, P.) 3:85, May.

Football Fatalities, 28th Annual Survey of (Eastwood, F. R.) 4:116, July.

- G -

Game Book, How we do It, 3:85, May.

Gastric Juice and the Physiology of Digestion, Experiments and Observations on (Beaumont, W.) 5:143, Sept.

Guidance of the Young Child (Langford, L. M.) 4:115, July.

- H -

Health and Figure Control, Modern (Heidenstom, O.) 4:115, July.

Healthier Living, Essentials of (Schrifferes, J. J.) 3:84, May.

Human Motion, Efficiency of (Broer, M. R.) 4:116, July.

- J -

Judo Secrets of (Watanabe, J. & Avakian, L.) 6:176, Nov.

- K -

Karate: the Art of "Empty Hand" Fighting (Nishiyama, H. & Brown, R. C.) 2:51, March.

Kinesiology (Wells, K. F.) 4:116, July.

Kybernetics of Natural Systems, the (Stanley-Jones, D. & K.) 6:176, Nov.

- L -

Low Back Pain, Elongation Treatment of (Hassard, G. H. & Reed, C. L.) 3:84, May.

- M -

Medical History, Source Book of (Clendenning, L.) 5:144, Sept.

Medicine, Aerospace, Lectures in, 5:145, Sept.

Medicine and Surgery, Classics of (Camac, C. N. B.) 5:143, Sept.

- N -

Nutrition, Teaching, in the Elementary School (Banks, M. A. & Dunham, M.) 3:86, May.

- P -

Physical Activity in Modern Living (Van Huss, W.) 6:176, Nov.

Physical Education, Foundations of (Bucher, C. A.) 5:145, Sept.

Physical Education Literature, Vol IV, Index and Abstracts of Foreign (Olson, H. W.) 2:51, March.

Physical Education, Measurement and Evaluation in (Scott, M. E. & French, E.) 3:85, May.

Physical Education Principles and Techniques of Supervision in (Irwin, L. W. & Humphrey, J. H.) 6:177, Nov.

Physiology of Motion (Duchenne, G. B.) 1:25, Jan.

Posture, Active Alerted (Tucker, W. E.) 5:145, Sept.

Posture, Man's: Electromyographic Studies (Joseph, J.) 5:144, Sept.

Postural Fitness—Significance and Variances (Lowman, C. L. & Young, C. H.) 3:85, May.

Prison, Social Organization of the, Theoretical Studies in (Cloward,

R.) 4:116, July.

Projective Techniques, Creative Variations in the (Harrower, M.) 5:144, Sept.

Prosthetic Principles—Above Knee Amputations (Anderson, M. H., Bray, J. J. & Hennessy, C. A.) 2:50, March.

- Q -

Quackery, the Golden Age of (Holbrook, S. H.) 2:50, March.

- R -

Recreation Activities for the Handicapped (Chapman, F. M.) 6:175, Nov.

Recreation and Leisure Philosophy of (Nash, J. B.) 6:177, Nov.

Research, Completed, in Health, Physical Education, Recreation (Hubbard, A. W. & Weiss, R. A.) 2:52, March.

Research, Completed, in Health, Physical Education, Recreation (Hubbard, A. W. & Weiss, R. A.) 5:144, Sept.

Research in Health, an Inventory of Social and Economic (Seacat, M. S.) 2:50, March.

Research Methods in Health, Physical Education and Recreation (Scott, M. G.) 1:25, Jan.

- S -

Sex in Psychoanalysis (Ferenczi, S.); Psychoanalysis, the Development of (Ferenczi, S. & Rank, O.) 4:116, July.

Speech Book, Clown Family, the (Pollock, M. P. & Pollock, M. S.) 5:143, Sept.

Statistics for the Behavioral Sciences, Nonparametric (Siegel, S.) 2:52, March.

Statistics in Research (Ostle, B.) 3:85, May.

Statistics, Nonparametric and Shortcut, in the Social, Biological and Medical Sciences (Tate, M. W. & Clelland, R. C.) 3:84, May.

- T -

Track and Field Athletics (Bresnahan, G. T., Tuttle, W. W. & Cretzmeyer, F. X.) 2:52, March.

Track and Field for Coach and Athlete (Mortensen, J. P. & Cooper, J. M.) 4:115, July.

- V -

Varicose Veins, on the Causation of (Cleave, T. L.) 5:145, Sept.

Vision of the Aging Patient: an Optometric Symposium (Hirsch, M. J. & Wick, R. E.) 6:175, Nov.

- W -

Weight Training and Weight Lifting for Physical Fitness in Nebraska High Schools (Higgins, R. L.) 3:84, May.

Weight Training Manual, Athletic, 2:51, March.

Westerner's Brand Book, the (Meadows, D.) 2:51, March.

- Y -

Yoga, a Scientific Evaluation of (Behanan, K. T.) 5:144, Sept.

# Author Index - - Volume XIV

## - A -

- Agronowitz, A. & McKeown, M. R., 2:51, March (BR)  
 Altschul, R. & Smart, T. A., 1:21, Jan. (abs)  
 Andersen, K. L., Bolstad, A. & Sand, S., 3:83, May (abs)  
 Anderson, M. H., Bray, J. J. & Hennessey, C. A., 2:50 March (BR)  
 Anthony, C. P., 5:144, Sept. (BR)  
 Appell, W. T. & Reis, W. H., 1:14, Jan.  
 Astrand, I., Astrand, P-O, Christensen, E. H. & Hedman, R., 5:142, Sept. (abs)  
 Astrand P-O, Astrand, I., Christensen, E. H. & Hedman, R., 5:142, Sept. (abs)  
 Atoman, D., Jurcisin, G. & Halliday, R. W., 4:103, July.

## - B -

- Bagchi, B. K. & Wenger, M. A., 1:19, Jan. (abs)  
 Bando, E., Takayama, T., Miryamoto, H., Ushikubo, S. & Sasada, T., 3:83, May (abs)  
 Banks, M. A. & Dunham, M., 3:86, May (BR)  
 Basmajian, J. V., 2:50, March (BR)  
 Beaumont, W., 5:143, Sept. (BR)  
 Behanan, K. T., 5:144, Sept. (BR)  
 Beckner, G. L. & Winsor, T., 4:106, July.  
 Binger, C., 6:175 Nov. (abs)  
 Bishop, P. M. F., 2:46, March (abs)  
 Blashy, M. R. M. & Hooker, R. F., 3:69, May.  
 Blashy M. R. M., Tanzine J. & Oldham, J., 6:158, Nov.  
 Bok, F. J., Klafs, C. E., Jahn, R. & Young, C. H., 4:100, July.  
 Bolinger R. E. & McKee W. P., 3:82, May (abs)  
 Bolstad, A., Andersen, K. L. & Sand, S., 3:83, May (abs)  
 Bors, E. & Nyquist, R. H., 5:125, Sept.  
 Bray, J. J., Anderson, M. H. & Hennessey, C. A., 2:50, March (BR)  
 Bresnehan G. T., Tuttle, W. W. & Cretzmeyer, F. X., 2:52, March (BR)  
 Braunwald, E., Kelly, E. R. & Bullock, F. A., 4:113, July (abs)  
 Broer, M. R., 4:116, July (BR)  
 Brouha, L., 3:82, May (abs)  
 Brown, R. C. & Nishayama, H., 2:51, March (BR)  
 Bucher, C. A., 5:145, Sept. (BR)  
 Buhler, C., 1:20, Jan. (abs)  
 Bullock, F. A., Braunwald, E. & Kelly, E. R., 4:113, July (abs)

## - C -

- Camac, C. N. B., 5:143, Sept. (BR)  
 Carlile, F., 1:20, Jan. (abs)  
 Chapman C. B., Fisher, J. N. & Sproule, B. J., 6:174, Nov. (abs)  
 Chapman, F. M., 6:175, Nov. (BR)  
 Christaldi, J., Golub, L. S., Menduke, H. & Mueller G. W., 1:11, Jan.

- Christensen, E. H., Astrand, I., Astrand, P-O, & Hedman, R., 5:142, Sept. (abs)  
 Christensen, E. H., Hedman, R. & Holmdahl, I., 4:114, July (abs)  
 Cleave, T. L., 5:145, Sept. (BR)  
 Clelland, R. C. & Tate, M. W., 3:84, May, (BR)  
 Clendening, L., 5:144, Sept. (BR)  
 Cloward, R., 4:117, July (BR)  
 Cooper, J. M. & Mortensen, J. P., 4:115, July (BR)  
 Coppen, A. J., 2:45, March (abs)  
 Coye R. D. & Rosandich, R. R., 6:175, Nov. (abs)  
 Cretzmeyer, F. X., Tuttle, W. W. & Bresnehan, G. T., 2:52, March (BR)  
 Cyriax, J., 6:174, Nov. (abs)

## - D -

- Davis, P. R., 2:44, March (abs)  
 Dayton, O. W., 6:176 Nov. (BR)  
 Duchenne, G. B., 1:25, Jan. (BR)  
 Dunham, M. & Banks, M. A., 3:86, May (BR)  
 Du Vries, H. L., 2:45, March (abs)

## - E -

- Eastwood, F. R., 4:117, July (BR)  
 Efron, H. Y., Marks, H. K. & Hall, R., 1:21, Jan. (abs)  
 Engel, R. W., 2:46, March (abs)  
 Erskine, L. A., 1:21, Jan. (abs)  
 Espinosa, L. J. & Iborra, J. E., 3:82, May (abs)  
 Eysenck, H. J., 4:113, July (abs)

## - F -

- Fearnley, G. R., 2:46, March (abs)  
 Felton, J. S., 1:20, Jan. (abs)  
 Ferenczi, S., 4:116, July (BR)  
 Ferenczi, S. & Rank, O., 4:116, July (BR)  
 Fisher J. N., Chapman, C. B. & Sproule, B. J., 6:174, Nov. (abs)  
 Fowler, R. G., Weber, B. H. & Koos, W., 2:33, March.  
 French, E. & Scott, M. G., 3:85, May (BR)  
 Friedberg, S. J., 4:114, July (abs)  
 Friedland, F., 4:95, July.

## - G -

- Garber, E. D., 3:82, May (abs)  
 Garrett, M. R., 1:25, Jan. (BR)  
 Gary, M. J., Oermann, K. C. H. & Young, C. H., 3:84, May (BR)  
 Goldstein, M. S., 4:114, July (abs)  
 Golub, L. S., Menduke, H. Mueller, G. W. & Christaldi, J., 1:11, Jan.  
 Goss, C. M., 2:51, March (BR)  
 Grunwald, A. & Silberman, Z., 4:113, July (abs)

## - H -

- Hall, D. M. & Tipton, C. M., 3:72, May.  
 Hall, R., Efron, H. Y. & Marks, H. K., 1:21, Jan. (abs)  
 Halliday, R. W., Atoman, D. & Jurcisin, G., 4:103, July.  
 Harrower, M., 5:144, Sept. (BR)

- Hassard, G. H. & Reed, C. L., 3:84, May (BR)  
 Hedman, R., Holmdale, I. & Christensen, E. H., 4:114, July (abs)  
 Hedman, R., Astrand, I., Astrand, P-O & Christensen, E. H., 5:142, Sept. (abs)  
 Heidenstom, O., 4:115, July (BR)  
 Heidenstom, O. & Johnson, D. L., 3:84, May (BR)  
 Heller, S. S., Hicks, W. R. & Root, W. S., 2:45, March (abs)  
 Hicks, W. R., Heller, S. S. & Root, W. S., 2:45, March (abs)  
 Higgins, R. L., 3:84, May (BR)  
 Hirsch M. J. & Wick, R. E. 6:175, Nov. (BR)  
 Hodgdon, R. E. & Riemer, D., 2:38, March.

- Hodkinson, H. M., Morris-Owen, R. M. & Williams, H. M., 4:113, July (abs)  
 Holbrook, S. H., 2:50, March (BR)  
 Hollinshead, W. H., 3:86, May (BR)  
 Holmdahl, I., Hedman, R. & Christensen, E. H., 4:114, July (abs)  
 Holmgren, A., 6:174, Nov. (abs)  
 Hooker, R. F. & Blashy, M. R. M., 3:69, May.  
 Hoon, J. R., 2:45, March (abs)  
 Hubbard, A. W. & Weiss, R. A., 5:144, Sept. (BR)  
 Hubbard, A. W. & Weiss, R. A., 2:52, March (BR)  
 Humphrey, J. H. & Irwin, L. W., 6:177, Nov. (BR)  
 Hunt, M. B. & Rasch, P. J., 6:163, Nov.  
 Hunt, M. B., Rasch, P. J., Pierson, W. R. & O'Connell, E. R., 3:67, May.

## - I -

- Iakovlev N. N., 5:143, Sept. (abs)  
 Iampietro P. F., 6:175, Nov. (abs)  
 Iborra, J. E. & Espinosa, L. J., 3:82, May (abs)  
 Irwin, L. W. & Humphrey, J. H., 6:177 Nov. (BR)

## - J -

- Jahn, R., Klafs, C. E., Bok, F. J. & Young, C. H., 4:100, July.  
 Jarvinen K. A. J., 4:113, July (abs)  
 Johnson, D. L. & Heidenstom, O., 3:84, May (BR)  
 Johnson, W. R., 5:145, Sept. (BR)  
 Johnston, W., 4:114, July (abs)  
 Jokl, E., 2:46 March (abs)  
 Jokl, E., 3:71, May.  
 Joseph J., 5:144, Sept. (BR)  
 Jurcisin, G., Atoman, D. & Halliday, R. W., 4:103, July.

## - K -

- Kelly, E. R., Braunwald, E. & Bullock, F. A., 4:113, July (abs)  
 Klafs, C. E., Bok, F. J., Jahn, R. & Young C. H., 4:100, July.  
 Klaus, E. J., 4:114, July (abs)  
 Klein, K. K., 2:35, March.  
 Koos, W., Fowler, R. G. & Weber, B. H., 2:33, March.

Kraabel, T. O., 5:138, Sept.  
Kyle, L. H. & Werdein, E. J., 4:115,  
July (abs)

- L -

Langford, L. M., 4:115, July (BR)  
Larsen, G. L. & Rarick, G. L., 2:46,  
March (abs)  
Lewin, P., 3:85, May (BR)  
Logan, G. L., Rasch, P. J., Manis-  
calco, R. & Pierson, W. R., 3:83,  
May (abs)  
Lowman C. L. & Young, C. H., 3:85,  
May (BR)

- M -

MacNamara, J., Prime, P. J. & Sin-  
clair, J. D., 3:83, May (abs)  
McAllister, F. F., 2:45, March (abs)  
McKee, W. P. & Bolinger, R. E.,  
3:82, May (abs)  
McKeown, M. R. & Agronowitz, A.,  
2:51, March (BR)  
Maniscalco, R., Rasch, P. J., Pier-  
son, W. R. & Logan, G. A., 3:83,  
May (abs)  
Marks H. K., Efron, H. Y. & Hall,  
R., 1:21, Jan. (abs)  
Marmor, L., 1:20, Jan. (abs)  
Martin, S. J., 2:45, March (abs)  
Meadows, D., 2:51, March (BR)  
Menduke, H., Golub, L. S., Mueller,  
G. W. & Christaldi, J., 1:11, Jan.  
Millar, E. C. P. & Wolstenholme,  
G. E. W., 4:116, July (BR)  
Minic, S., 6:175, Nov. (abs)  
Miryamoto, H., Takayama, T., Ban-  
do, E., Ushikubo, S. & Sasada, T.,  
3:83, May (abs)  
Morris-Owen, R. M., Hodgkinson,  
H. M. & Williams, H. M., 4:113,  
July (abs)  
Mortensen, J. P. & Cooper, J. M.,  
4:115, (BR)  
Mueller, G. W., Golub, L. S., Men-  
duke, H. & Christaldi, J., 1:11,  
Jan.

- N -

Nash, J. B., 6:177 Nov. (BR)  
Nelson, R., Rhodes, E. & Van Huss,  
W. D., 3:78, May.  
Nichols, P. J. R., 6:175, Nov. (abs)  
Nishiyama, H. & Brown, R. C., 2:51,  
March (BR)  
Nyquist, R. H. & Bors, E., 5:125,  
Sept.

- O -

O'Connell, E. R., 3:74, May.  
O'Connell, E. R., Rasch, P. J. &  
Pierson, W. R., 2:47, March.  
O'Connell, E. R., Rasch, P. J., Pier-  
son, W. R. & Hunt, M. B., 3:67,  
May.  
Oermann K. C. H., Young, C. H. &  
Gary, M. J., 3:84, May (BR)  
Oldham J., Blashy, M. R. M., &  
Tanzine, J., 6:158, Nov.  
Olson, H. W., 2:51, March (BR)  
Orloff, M. J., 1:21, Jan. (abs)  
Ostle, B. 3:85, May (BR)

- P -

Petersen, F. B., 5:142, Sept. (abs)

Pierson, W. R., 5:136, Sept.  
Pierson, W. R., Rasch, P. J. &  
O'Connell, E. R., 2:47, March.  
Pierson, W. R., Rasch, P. J., O'Con-  
nell, E. R. & Hunt, M. B., 3:67,  
May.

Pierson, W. R., Maniscalco, R.,  
Rasch, P. J. & Logan, G. A., 3:83,  
May (abs)

Pilkington T. E., 4:115, July (abs)

Pitman, J., 2:45, March (abs)

Pollock, M. P. & Pollock, M. S.,  
5:143, Sept. (BR)

Pollock, M. S. & Pollock, M. P.,  
5:143, Sept. (BR)

Prime, F. J., MacNamara, J. &  
Sinclair, J. D., 3:83, May (abs)

- R -

Raab, W., 6:174, Nov. (abs)  
Radzyninski, S. F., 5:132, Sept.  
Rank, O. & Ferenczi, S., 4:116, July  
(BR)  
Rarick, G. L. & Larsen, G. L., 2:46,  
March (abs)  
Rasch, P. J., 1:21, Jan. (abs)  
Rasch, P. J. & Hunt, M. B., 6:163,  
Nov.  
Rasch, P. J., Pierson, W. R., O'Con-  
nell, E. R. & Hunt, M. B., 3:67,  
May.  
Rasch P. J., Maniscalco, R., Pier-  
son, W. R. & Logan, G. A., 3:83,  
May (abs)  
Reed, C. L. & Hassard, G. H., 3:84,  
May (BR)  
Rels, W. H. & Appell, W. T., 1:14,  
Jan.  
Rhodes, E., Van Huss, W. D. &  
Nelson, R., 3:78, May.  
Riemer, D. & Hodgdon, R. E., 2:38,  
March.  
Risch, F., 5:129, Sept.  
Ritchey, S. J., 2:45, March (abs)  
Root, W. S., Heller, S. S. & Hicks,  
W. R., 2:45, March (abs)  
Rosandich, R. R. & Coye, R. D.,  
6:175, Nov. (abs)  
Rosenberg, L., 1:9, Jan.

- S -

St. Louis, F. G., 5:134, Sept.  
Sand, S., Andersen, K. L. & Bolstad,  
A., 3:83, May (abs)  
Sasada, T., Takayama, T., Bando,  
E., Miryamoto, H. & Ushikubo,  
S., 3:83, May (abs)  
Saunders, J. F., 4:113, July (abs)  
Schrifferes, J. J., 3:84, May (BR)  
Scott, M. G., 1:25, Jan. (BR)  
Scott, M. G. & French, E., 3:85,  
May (BR)  
Seacat, M. S., 2:50, March (BR)  
Sebes, T. A. & Tigye, J., 1:21, Jan.  
(abs)  
Seltzer, C. C., 2:44, March (abs)  
Shapiro, A. K., 1:19, Jan. (abs)  
Sherwin, A. C., 2:46 March (abs)  
Shivers, J. S., 6:168, Nov.  
Siebert, W. W., 6:153, Nov.  
Siegel, S., 2:52, March (BR)  
Sinclair, J. D., MacNamara, J. &  
Prime, F. J., 3:83, May (abs)  
Smart, T. A. & Altschul, R., 1:21,  
Jan. (abs)  
Smirnov, K. M., 2:45, March (abs)

Sproule B. J., Chapman, C. B. &  
Fisher, J. N., 6:174, Nov. (abs)  
Stafford, C. E., 1:5, Jan.  
Stanley-Jones, D. & Stanley-Jones,  
K., 6:176, Nov. (BR)  
Stepanov, A. S., 2:46, March (abs)  
Stirling, J. H., 5:144, Sept. (BR)  
Strange, F. G. St. C., 4:113, July  
(abs)  
Suzuki, K., 4:114, July (abs)

- T -

Takayama, T., Bando, E., Mirya-  
moto, H., Ushikubo, S. & Sasada,  
T., 3:83, May (abs)  
Tanzine, J., Blashy, M. R. M. &  
Oldham J., 6:158, Nov.  
Tate, M. W. & Clelland, R. C., 3:84,  
May (BR)  
Tigye, J. & Sebes, T. A., 1:21, Jan.  
(abs)  
Tipton, C. M. & Hall, D. M., 3:72,  
May.  
Tucker, W. E., 5:145, Sept. (BR)  
Tuttle, W. W., Bresnahan, G. T. &  
Cretzmeyer, F. X., 2:52, March  
(BR)  
Twombly, G., 1:20, Jan. (abs)

- U -

Ushikubo, S., Takayama, T., Bando,  
E., Miryamoto, H. & Sasada, T.,  
3:83, May (abs)

- V -

Van Huss, W., 6:176, Nov. (BR)  
Van Huss, W. D., Rhodes, E. & Nel-  
son, R., 3:78, May.  
Van Schoick, J., 2:41, March.  
Vogel, J., 6:165 Nov.  
Volkart, E. H., 3:82, May (abs)

- W -

Wall, J., 4:114, July (abs)  
Weber B. H., Fowler, R. G. & Koos,  
W., 2:33, March.  
Weiss, R. A. & Hubbard, A. W., 2:52,  
March (BR)  
Weiss, R. A. & Hubbard, A. W.,  
5:144, Sept. (BR)  
Wells, K., 4:117, July (BR)  
Wenger, M. A. & Bagchi, B. K.,  
1:19, Jan. (abs)  
Werdein, E. J. & Kyle, L. H., 4:115,  
July (abs)  
Wick, R. E. & Hirsch, M. J., 6:175,  
Nov. (BR)  
Wickstrom R. L., 6:161, Nov.  
Williams, H. M., Hodgkinson, H. M.  
& Morris-Owen, R. M., 4:113, July  
(abs)  
Winsor, T. & Beckner, G. L., 4:106,  
July.  
Wolstenholme, G. E. W. & Millar,  
E. C. P., 4:116, July (BR)  
Worthingham, C., 5:143, Sept. (abs)

- Y -

Young, C. H., Klafs, C. E., Bok,  
F. J. & Jahn, R., 4:100, July.  
Young, C. H. & Lowman, C. L., 3:85,  
May (BR)  
Young, C. H., Oermann, K. C. H. &  
Gary, M. J., 3:84, May (BR)

